

### REMARKS

Claims 1-10, 12-25, 27-43 and 46-50 are pending. Claims 18-25, 27-32, 34, 35 and 48-49 are amended. No new matter is added. Claims 18-25, 27-32, 34, 48 and 49 stand rejected under 35 U.S.C. § 101. The applicant respectfully traverses the rejections and requests reconsideration in view of the amendments and remarks herein.

### **Interview Summary**

On or about April 10, 2008, the applicant's representative, Brenda Leeds Binder of Fish & Richardson, spoke with the Examiner by telephone about the 101 rejections. No agreement was reached.

### **Information Disclosure Statements**

Upon reviewing the file, the applicant noted that initialed copies of the PTO Forms 1449, that accompanied information disclosure statements filed on December 3, 2004, November 22, 2006, March 14, 2007, May 7, 2007 and October 4, 2007, have not been received by the applicant. Copies of these information disclosure statements are enclosed for your reference.

The applicant's records show that these information disclosure statements complied with 37 CFR 1.97. Thus, we respectfully request that the Examiner initial and return the forms as soon as possible.

### **101 Rejections**

For the purpose of expediting prosecution, and without conceding that the claims as previously presented were properly rejected under § 101, the applicant has amended claims 18-25, 27-32, 34, 48 and 49. The claims recite a computer-readable medium encoded with a computer program product. The applicant respectfully submits that the claims are directed to statutory subject matter, and refers the Examiner to the MPEP at § 2106.01 which states that "a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationship between the computer program and the rest of the computer which permit the computer program's functionality to be realized and is thus statutory". The applicant respectfully submits that the claims are in condition for allowance.

Applicant : Terence S. Dowling and R. David Arnold  
Serial No. : 09/739,587  
Filed : December 15, 2000  
Page : 15 of 15

Attorney's Docket No.: 07844-476001 / P440

No fees are believed due, however, please apply any charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: April 22, 2008 \_\_\_\_\_

/Brenda M. Leeds Binder/ \_\_\_\_\_  
Brenda M. Leeds Binder  
Reg. No. 57,520

**Customer No. 21876**  
Fish & Richardson P.C.  
Telephone: (650) 839-5070  
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50474226

DEC 06 2004

Attorney's Docket No.: 07844-476001  
Client's Ref. No.: P440

## OFFICIAL COMMUNICATION FACSIMILE:

OFFICIAL FAX NO: (703) 872-9306

Number of pages including this page 5

Applicant : Terence S. Dowling and R. David Arnold Art Unit : 2671  
Examiner : Mark Zimmerman  
Serial No. : 09/739,587  
Filed : December 15, 2000

Title : HINTED STEM PLACEMENT ON HIGH-RESOLUTION PIXEL GRID

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Attached to this facsimile communication cover sheet is a *INFORMATION DISCLOSURE STATEMENT; PTO FORM 1449*.

Brenda Leeds Binder has been given limited recognition under 37 CFR § 11.9(b) as an employee of the Fish & Richardson PC law firm to prepare and prosecute patent applications wherein the patent applicant is a client of Fish & Richardson PC and the attorney or agent of record in the applications is a registered practitioner who is a member of Fish & Richardson, which is the case in the present application. A copy of the Limited Recognition document, which expires July 26, 2005, is attached hereto.

Please apply any charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: 12/3/04

*Bleeds*  
Brenda Leeds Binder  
Limited Recognition under 37 CFR § 11.9(b)

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DEC 06 2004

Attorney's Docket No.: 07844-476001 / P440

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Terence S. Dowling and R. David Arnold Art Unit : 2671  
Examiner : Mark Zimmerman  
Serial No. : 09/739,587  
Filed : December 15, 2000  
Title : HINTED STEM PLACEMENT ON HIGH-RESOLUTION PIXEL GRID

## MAIL STOP AMENDMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

The references are listed on the attached form PTO-1449.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office Action on the merits after a Request for Continued Examination, filed November 1, 2004.

Brenda Leeds Binder has been given limited recognition under 37 CFR § 11.9(b) as an employee of the Fish & Richardson PC law firm to prepare and prosecute patent applications wherein the patent applicant is a client of Fish & Richardson PC and the attorney or agent of record in the applications is a registered practitioner who is a member of Fish & Richardson, which is the case in the present application. A copy of the Limited Recognition document, which expires July 26, 2005, is attached hereto.

## CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on the date indicated below.

Date of Transmission  


December 3, 2004

Applicant : Terence S. Dowling and R. David Arnold  
Serial No. : 09/739,587  
Filed : December 15, 2000  
Page : 2 of 2

Attorney's Docket No.: 07844-476001 / P440

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date:

Dec 3, 2004

B. Leeds  
Brenda Leeds Binder  
Limited Recognition under 37 CFR § 11.9(b)

Fish & Richardson P.C.  
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Sheet 1 of 1

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07844-476001	Application No. 09/739,587
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Terence S. Dowling and R. David Arnold	
		Filing Date December 15, 2000	Group Art Unit 2671

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	US-6,438,576	08/20/2002	Huang, et al.			
	AB	US-5,684,510	11/04/1997	Brassell, et al.			
	AC	US-6,104,833	08/15/2000	Naoi, et al.			
	AD						
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
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	AS	
	AT	

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

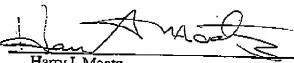
**BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE  
UNITED STATES PATENT AND TRADEMARK OFFICE**

**LIMITED RECOGNITION UNDER 37 CFR § 11.9(b)**

Brenda Leeds Binder is hereby given limited recognition under 37 CFR § 11.9(b) as an employee of the Fish & Richardson P.C. law firm to prepare and prosecute patent applications wherein the patent applicant is the client of the Fish & Richardson P.C. law firm, and the attorney or agent of record in the applications is a registered practitioner who is a member of the Fish & Richardson P.C. law firm. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) Brenda Leeds Binder ceases to lawfully reside in the United States, (ii) Brenda Leeds Binder's employment with the Fish & Richardson P.C. law firm ceases or is terminated, or (iii) Brenda Leeds Binder ceases to remain or reside in the United States, authorized to be employed in accordance with an Employment Authorization Card issued pursuant to 8 CFR § 274a.12(c)(9).

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the United States Patent and Trademark Office.

Expires: July 26, 2005

  
Harry I. Moatz  
Director of Enrollment and Discipline

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Terence S. Dowling and R. David Arnold    Art Unit : 2673  
Serial No. : 09/739,587    Examiner : Phu K. Nguyen  
Filed : December 15, 2000    Conf. No. : 3536  
Title : HINTED STEM PLACEMENT ON HIGH-RESOLUTION PIXEL GRID

**MAIL STOP RCE**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

This filing is being made with the filing of a Request for Continued Examination. No fee is required.

Respectfully submitted,

Date: November 22, 2006 \_\_\_\_\_

/Brenda M. Leeds Binder/ \_\_\_\_\_  
Brenda M. Leeds Binder  
Reg. No. 57,520

**Customer No. 021876**  
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07844-476001	Application No. 09/739,587
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Terence S. Dowling and R. David Arnold	
		Filing Date December 15, 2000	Group Art Unit 2673

(37 CFR §1.98(b))

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5325479	06/1994	Kaasila, Sampo			
	AB	6369902	04/2002	Beaman et al.			
	AC	5909221	06/1999	Nakai, et al.			
	AD						
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**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AQ	
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Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Terence S. Dowling and R. David Arnold    Art Unit : 2673  
Serial No. : 09/739,587    Examiner : Phu K. Nguyen  
Filed : December 15, 2000    Conf. No. : 3536  
Title : HINTED STEM PLACEMENT ON HIGH-RESOLUTION PIXEL GRID

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

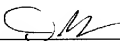
**INFORMATION DISCLOSURE STATEMENT**

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This statement is being filed before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 14 March 2007

  
\_\_\_\_\_  
Daniel J. Burns  
Reg. No. 50,222

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. <b>07844-476001</b>	Application No. <b>09/739,587</b>
		Applicant <b>Terence S. Dowling and R. David Arnold</b>	
		Filing Date <b>December 15, 2000</b>	Group Art Unit <b>2673</b>

**Information Disclosure Statement  
by Applicant**  
(Use several sheets if necessary)

(37 CFR §1.98(b))

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	6128415	10/2000	Hultgren et al.			
	AB	6141441	10/2000	Cass et al.			
	AC	6408109	06/2002	Silver et al.			
	AD						
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							Yes	No
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	AP							

**Other Documents (include Author, Title, Date, and Place of Publication)**

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Examiner Signature	Date Considered
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Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 07844-476001	Application No. 09/739,587
	Applicant Terence S. Dowling and R. David Arnold			
	Filing Date December 15, 2000		Group Art Unit 2628	

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5280577	01/1994	Trevett, et al.			
	AB	5664086	09/1997	Brock, et al.			
	AC	5808600	09/1998	Mochizuki			
	AD	5852448	12/1998	Cheng			
	AE	5959634	09/1999	Yoshida			
	AF	6229521	05/2001	Yip			
	AG	6288725	09/2001	Fu			
	AH	6459431	10/2002	Browne, et al.			
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							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AQ	Taligent Documentation, "Miter limit joint" [online], 1995 [retrieved on March 8, 2007]. Retrieved from the Internet: <URL: <a href="http://www.cubik.org/mirrors/taligent/Docs/books/GS/GS_134.html">http://www.cubik.org/mirrors/taligent/Docs/books/GS/GS_134.html</a> > 1 page.
	AR	Wikipedia, "Transformation matrix" [online], [retrieved on March 8, 2007]. Retrieved from the Internet: <URL: <a href="http://en.wikipedia.org/wiki/Matrix_transformation">http://en.wikipedia.org/wiki/Matrix_transformation</a> > 5 pages.
	AS	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Terence S. Dowling and R. David Arnold    Art Unit : 2628  
Examiner : Phu K. Nguyen  
Serial No. : 09/739,587    Conf. No. : 3536  
Filed : December 15, 2000  
Title : HINTED STEM PLACEMENT ON HIGH-RESOLUTION PIXEL GRID

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

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This statement is being filed before the receipt of a first Office Action on the merits after filing a Request for Continued Examination. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: October 4, 2007 \_\_\_\_\_

/Brenda M. Leeds Binder/ \_\_\_\_\_  
Brenda M. Leeds Binder  
Reg. No. 57,520

**Customer No. 21876**  
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07844-476001	Application No. 09/739,587
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Terence S. Dowling and R. David Arnold	
		Filing Date December 15, 2000	Group Art Unit 2628

(37 CFR §1.98(b))

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,304,989	04/1994	Martinez, et al.			
	AB						
	AC						
	AD						
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